

What I claim is:

1. A drying system to remove water from and beneath a surface comprising:
a vacuum chamber in sealable contact with at least two planar surfaces, the
chamber having at least one port to receive a vacuum and a periphery to effect
5 sealing; and
a vacuum source connected with the port,
wherein the vacuum source creates an enclosure of negative pressure within the
chamber and urges water to flow from beneath each surface and towards the
vacuum source to effect moisture removal.
- 10 2. The system of Claim 1, wherein the vacuum chamber straddles across and makes
sealable contact with the surfaces of a floor and a wall, or a wall and a ceiling, or a
wall and a wall.
3. The system of Claim 2, wherein the angle of separation between each surface is
approximately 90 degrees.
- 15 4. The system of Claim 1, wherein the vacuum chamber straddles across and makes
sealable contact with the surfaces of a first wall, an second wall, and a floor.
5. The system of Claim 1, wherein the vacuum chamber straddles across and makes
sealable contact with the surfaces of a first wall, an second wall, and a ceiling.
- 20 6. A surface drying system comprising:
a vacuum mat having a surface with at least one vacuum port and a plurality of
channels; and
a vacuum source connected with the port,

wherein the vacuum source creates an enclosure of negative pressure within the perimeter of the mat and urges water to flow through the channels towards the vacuum source to effect moisture removal.

5 7. The system of Claim 6, wherein the plurality of channels is made by a surface pattern formed into the mat.

8. The system of Claim 3, wherein the plurality of channels are made by a grid having a plurality of overlapping strands underneath the mat.

10 9. The system of Claim 6, wherein the port includes a manifold, the manifold having at least one nozzle, the first end of the nozzle in fluid communication with the vacuum source and the second end of the nozzle in fluid communication with the mat.

10. A method for removing moisture, the method comprising:

connecting a vacuum source to a first end of a flexible hose, the flexible hose having a second end;

15 placing at least one interplane vacuum chamber with a port to straddle across and make sealable contact with a first plane and a second plane, the first plane intersecting with the second plane;

connecting the second end of the flexible hose to the port; and applying the vacuum, creating within the interplane vacuum chamber a reservoir of
20 negative pressure, to effect moisture removal underneath and from the surfaces each plane.

11. A method for removing moisture, the method comprising:

placing at least one water impermeable vacuum mat having a manifold over a surface, the mat configured to have a lattice formation, the lattice formation providing spaces;

connecting the manifold with a vacuum source; and

5 applying a vacuum, wherein negative pressure causes water to flow through the spaces within the lattice formation to the vacuum source to effect moisture removal underneath and from the surface.

12. The method of Claim 11 wherein the lattice pattern is formed into the mat

13. The method of Claim 11 wherein the lattice pattern is formed by a plurality of
10 overlapping strands underneath the mat.

14. The system of Claim 11 wherein the vacuum mats are separately connected to the vacuum source.

15. The system of Claim 11 wherein the vacuum mats receive vacuum from vacuum mats connected to the vacuum source.

15 16. The system of Claim 15 wherein a first vacuum mat is placed on a first plane, and a second vacuum mat is placed on a second plane, the first plane intersecting with the second plane.

17. A system for removing moisture, the system comprising:

20 a means for connecting a vacuum source to a first end of a flexible hose, the flexible hose having a second end;

a means for placing at least one interplane vacuum chamber with a port to straddle across and make sealable contact with a first plane and a second plane, the first plane intersecting with the second plane;

a means for connecting the second end of the flexible hose to the port; and
applying the vacuum, creating within the interplane vacuum chamber a
reservoir of negative pressure, to effect moisture removal underneath and
from the surfaces of each plane.

5 18. A system for removing moisture, the system comprising:

a means for placing at least one water impermeable vacuum mat having a
manifold over a surface, the mat configured to have a lattice formation, the
lattice formation providing spaces;

a means for connecting the manifold with a vacuum source; and

10 a means for applying a vacuum, wherein negative pressure causes water to flow
through the spaces within the lattice formation to the vacuum source to effect
moisture removal underneath and from the surface.

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